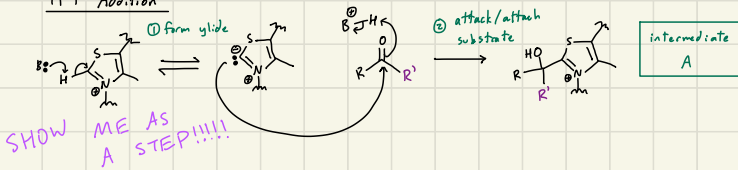


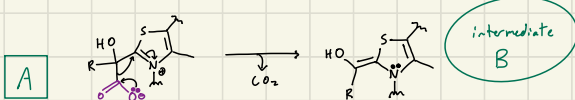
TPP as e^- sink : when carbonyl e^- sink not enough

TPP Addition

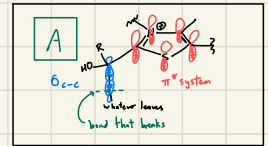
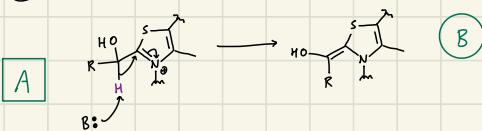


DRAW ME CORRECTLY!

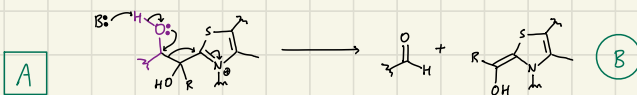
① Decarboxylation $R' = COO^-$



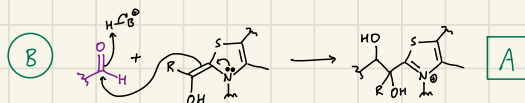
② Deprotonation $R' = H$



TPP as e^- sink for retro aldol/break C-C $R' = \text{OH}$

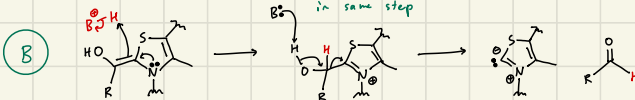


③ e^- sink for aldol/form C-C $R' = \text{OH}$

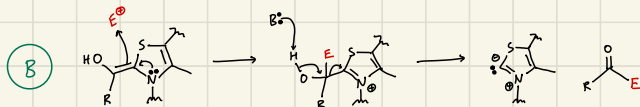


unattach TPP

1) $\text{OH} \rightarrow \text{O}^-$
2) also unattach TPP in same step

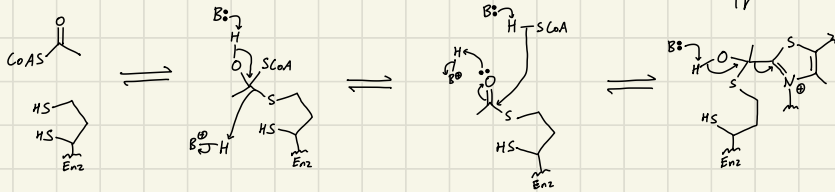
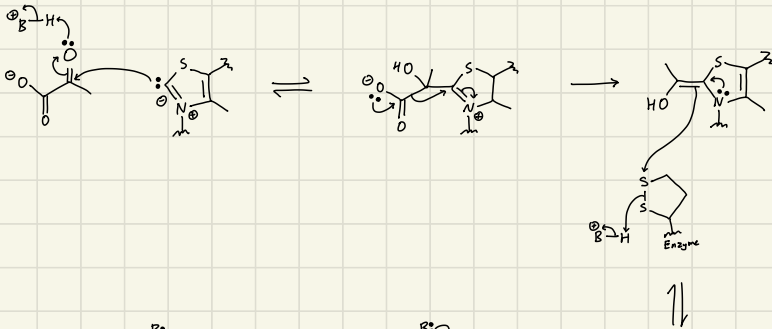


④ some Electrophile E



2nd page

PDH w TPP case study to memorize



Regenerate lipoic acid

